

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A data recording method of modulating the power of a laser beam in accordance with a pulse pattern, projecting the laser beam onto a write-once type optical recording medium to form a record mark and recording data in the write-once type optical recording medium, wherein the pulse pattern is constituted by a pattern in which the power of the laser beam is set to a recording power P_w within a first period and a second period and the power of the laser beam is set to an intermediate power P_m lower than the recording power P_w within a third period provided between the first period and the second period, the length of the first period and the levels of the recording power P_w and the intermediate power P_w/P_m being set to satisfy $1.7T \leq t_{top2}$ and $1.4 \leq P_w/P_m$ where T is a length corresponding to one cycle of a reference pulse and t_{top2} is the length of the first period.

2. (Original) A data recording method in according with Claim 1, wherein the length of the first period is set to satisfy $1.7T \leq t_{top2} \leq 2.0T$ and the recording power P_w and the intermediate power P_m are set to satisfy $1.4 \leq P_w/P_m \leq 1.62$.

3. (Original) A data recording method in according with Claim 1, wherein the linear recording velocity is set equal to or higher than 14 m/sec during recording of data in the write-once type optical recording medium.

4. (Original) A data recording method in according with Claim 2, wherein the linear recording velocity is set equal to or higher than 14 m/sec during recording of data in the write-once type optical recording medium.

5. (Original) A data recording method in according with Claim 1, wherein record marks including 5T marks are formed in the write-once type optical recording medium during recording of data therein.

6. (Original) A data recording method in according with Claim 2, record marks including 5T marks are formed in the write-once type optical recording medium during recording of data therein.

7. (Currently Amended) A data recording apparatus for modulating the power of a laser beam in accordance with a pulse pattern, projecting the laser beam onto a write-once type optical recording medium to form a record mark and recording data in the write-once type optical recording medium, wherein the pulse pattern is constituted by a pattern in which the power of the laser beam is set to a recording power P_w within a first period and a second period and the power of the laser beam is set to an intermediate power P_m lower than the recording power P_w within a third period provided between the first period and the second period, the length of the first period and the levels of the recording power P_w and the intermediate power P_w/P_m being set to satisfy $1.7T \leq t_{top2}$ and $1.4 \leq P_w/P_m$ where T is a length corresponding to one cycle of a reference pulse and t_{top2} is the length of the first period.

8. (Original) A data recording apparatus in accordance with Claim 7, wherein the length of the first period is set to satisfy $1.7T \leq t_{top2} \leq 2.0T$ and the recording power P_w and the intermediate power P_m are set to satisfy $1.4 \leq P_w/P_m \leq 1.62$.

9. (Currently Amended) A write-once type optical recording medium in which data can be recorded by modulating the power of a laser beam in accordance with a pulse pattern and projecting the laser beam thereonto, the write-once type optical recording medium being recorded with data for setting recording conditions necessary for setting the pulse pattern to a pattern in which the power of the laser beam is set to a recording power P_w within a first period and a second period and the power of the laser beam is set to an intermediate power P_m lower than the recording power P_w/P_m within a third period provided between the first period

and the second period, the length of the first period and the levels of the recording power P_w and the intermediate power ~~P_w~~ P_m being set to satisfy $1.7T \leq t_{top2}$ and $1.4 \leq P_w/P_m$ where T is a length corresponding to one cycle of a reference pulse and t_{top2} is the length of the first period.

10. (Canceled)

11. (Original) A write-once type optical recording medium in accordance with Claim 9 which includes a light transmittable substrate, a dummy substrate and a recording layer provided between the light transmittable substrate and the dummy substrate and containing an organic dye.

12. (Original) A write-once type optical recording medium in accordance with Claim 10 which includes a light transmittable substrate, a dummy substrate and a recording layer provided between the light transmittable substrate and the dummy substrate and containing an organic dye.